



PTO/SB/21 (08-03)
Approved for use through 08/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/586,648
Filing Date	June 1, 2000
First Named Inventor	Philip M. Snider
Art Unit	2635
Examiner Name	Albert Wong
Attorney Docket Number	200007 USA

Total Number of Pages in This Submission

ENCLOSURES (Check all that apply)

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form
<input type="checkbox"/> Fee Attached
<input checked="" type="checkbox"/> Amendment/Reply
<input type="checkbox"/> After Final
<input type="checkbox"/> Affidavits/declaration(s)
<input type="checkbox"/> Extension of Time Request
<input type="checkbox"/> Express Abandonment Request
<input type="checkbox"/> Information Disclosure Statement
<input type="checkbox"/> Certified Copy of Priority Document(s)
<input type="checkbox"/> Response to Missing Parts/Incomplete Application
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)
<input type="checkbox"/> Licensing-related Papers
<input type="checkbox"/> Petition
<input type="checkbox"/> Petition to Convert to a Provisional Application
<input type="checkbox"/> Power of Attorney, Revocation
<input type="checkbox"/> Change of Correspondence Address
<input checked="" type="checkbox"/> Terminal Disclaimer
<input type="checkbox"/> Request for Refund
<input type="checkbox"/> CD, Number of CD(s) | <input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
Request for Interference:
Post Card Receipt |
|---|---|---|

Remarks

Two Claim Charts A & B are attached to the Preliminary Amendment.

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SEP 17 2003

Technology Center 2600

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jack E. Ebel <i>by</i> <i>Elizabeth C. Weimer</i> Reg. No. 44,478
Signature	
Date	September 12, 2003

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name

Signature

Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (08-03)

Approved for use through 07/31/2006, OMB 0851-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 110

Complete If Known

Application Number 09/576,648

Filing Date June 1, 2000

First Named Inventor Phillip M. Snider

Examiner Name Albert Wong

Art Unit 2635

Attorney Docket No. 200007 USA

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METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number 13-1505

Deposit Account Name Marathon Oil Company

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) during the pendency of this application☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee	
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent Claims	-3** =	X	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2603 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1808 180	1808 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	
Other fee (specify) 1814/2814 110 Statutory Disclaimer			110

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 110

SUBMITTED BY

Name (Print/Type) Jack E. Ebel

Registration No. 28,148

Telephone 303 239 9883

Signature

Elizabeth C. Weimer Reg. No. 44478

Date September 12, 2003

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1001.03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re: Application of
Philip M. Snider et al.

SEP 17 2003

Serial No.: 09/586,648
Filed: June 1, 2000

Art Unit 2635 Technology Center 2600
Examiner: Albert Wong

Docket No.: 200007 USA

For: Method and System for Performing Operations and for Improving Production in Wells

September 12, 2003

Commissioner for Patents
Washington, D.C. 20231

Sir:

Request for Interference under 37 C.F.R. § 1.607(a)

Applicants respectfully request, under 37 C.F.R. § 1.607 that an interference be declared between the above-captioned application and U.S. Patent 6,333,700 B1 which issued on December 25, 2001 and was filed on March 28, 2000.

Claims 1-6, 10-14, 18-23, 30-34, 37-42 and 48 contained in U.S. Patent 6,333,700 B1 were copied into the pending application as claims 76-104 via a Preliminary Amendment filed December 20, 2002. While applicants believe that the claims that had been pending prior to the Dec. 20, 2002 amendment, included claims to the same invention, the claims of U.S. Patent 6,333,700 B1 were copied to insure that the application met the one year time limit set forth in 35 U.S.C. § 135(b). The amendment filed on December 20, 2002 identified U.S. Patent 6,333,700 B1 as the patent from which the added claims had been copied and the amendment identified written support in the application for each of the copied claims.

Accompanying this Request for Interference is an Amendment that cancels a majority of the claims that were previously copied from U.S. Patent 6,333,700 B1, leaving only claims 83-86, which correspond to claims 11-14 of U.S. Patent 6,333,700 B1, and additional claims, claims 105-138, that clearly set forth the invention that is being claimed by both parties. Written support in the above-captioned application for all of the currently pending claims is set forth in Claim Chart B attached to the Amendment.

As explained in the accompanying Amendment, the claims that were copied and have now been canceled, claims 76-82 and 87-104, are not patentable to the inventors of U.S. Patent 6,333,700 B1 in light of the teachings of at least U.S. Patent Nos. 6,434,649 B1, 6,359,569 B2, 6,481,505 B2 or 6,497,280 B2, all of which have an earlier effective U.S. filing date than U.S. Patent 6,333,700 B1, and as such are available as prior art under 35. U.S.C. § 102(e).

Applicants propose as a first count, claim 105 of the present application which claims the same invention as claim 11 U.S. Patent 6,333,700 B1, or pending claim 83 of the present application, which is claim 11 of U.S. Patent 6,333,700 B1 written in independent form. In addition, Applicants' currently pending claims 83-86 and 106-138, as well as claims 12-14 U.S. Patent 6,333,700 B1, as well as claims 25 and 29 of U.S. Patent 6,333,699 B1 (to which priority is claimed in the pending application), should be designated as corresponding to the count, because they are drawn to the same invention as the indicated count. Applicants further submit that they are entitled to senior party status because of their earlier effective filing date of April 6, 1999 when compared to the filing date of U.S. Patent 6,333,700 B1 (March 28, 2000). Thus, Applicants at least have provided an earlier constructive reduction to practice of the same invention claimed in at least claim 11 of U.S. Patent 6,333,700 B1. Claim 11 of

U.S. Patent 6,333,700 B1 is presented as independent claim 83 in the pending application. See the accompanying amendment.

With respect to the assertion of an earlier effective filing date, Applicants point to Chart A attached to the accompanying Amendment, which sets forth points of written support in the earlier-filed specification for the proposed count (pending claim 105 or pending claim 83) and the majority of the pending claims that correspond to the proposed count, the parent application having been issued as U.S. Patent 6,333,699 B1. The listed support in Chart A is not an exhaustive list of the points of disclosure of the claim features in the earlier filed disclosure. With respect to pending claim 83, which is claim 11 of U.S. Patent 6,333,700 B1 written in independent form, Applicant's earlier filed disclosure does not contain specific written support for the limitations in step (b) that specify that a downhole structure comprising an RF receiver unit "decode the signal to determine the identification code corresponding thereto and compare the identification code to a preset target identification code." Applicant's earlier disclosure clearly teaches decoding the signal and comparing the identification code to a preset target identification code. See column 9, lines 23-27 and 40-67 and column 10, lines 1-9 of U.S. Patent No. 6,333,699 B1. The specific downhole embodiment of the RF receiver unit *per se* being configured to accomplish the operations of decoding and comparing is not, however, specifically disclosed in the earlier filed application (now U.S. Patent 6,333,699 B1). Applicants submit that an embodiment in which these operations are performed in the circuitry of the downhole receiver unit, as opposed to the specified embodiment of the decoding and comparing steps being conducted in the circuitry of a computer located at the surface, is an obvious variation of the generic invention first disclosed by applicants. The mechanisms for modifying the circuitry of an RF receiver unit to additionally perform the functions of decoding and comparing were well established, and one of ordinary skill in the art would have found it obvious in March of 2000 to modify the location of the required microprocessor unit from the

surface to the receiver unit *per se*. Similarly, with respect to the limitations in pending claims 118, 119, 120, 122, 123, 131 and 137. These claims correspond to the count because they are not drawn to a patentably distinct invention. The disclosure of the parent application does not contain specific written support for these limitations. These limitations constitute obvious variations of the count, however. The limitations involve spacing a tool from a reader assembly by a selected distance, multiple tools and operations, transportation of a tool in a well by free falling, and specific recitation of a detonator for a perforating tool that is in signal communication with a reader assembly each of which one of ordinary skill in the art would have considered obvious in light of the general knowledge of the skilled artisan.

Applicants' respectfully request that the Examining Group as well as the members of the Board of Patent Appeals and Interferences handle this request with the "special dispatch" accorded this situation by 37 C.F. R. § 1.607(b).

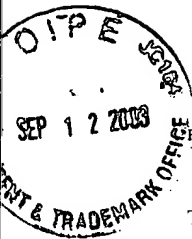
Applicants' respectfully request that the appropriate official in the Examining Group provide patentee Thomeer et al., who assigned the patent to Schlumberger Technology Corporation, with notice of this request as provided by the provisions of 37 C.F. R. § 1.607(d).

Respectfully submitted,

Elizabeth C. Weimar
Reg. No. 44,478

for

Jack E. Ebel
Attorney for Applicants
Reg. No. 28,148
(303) 239-9883



INTERFERENCE INITIAL MEMORANDUM

To the Board of Patent Appeals and Interferences:

An interference is proposed involving the following 2 parties—

PARTY Snider et al.	APPLICATION NO. 09/586,648	FILING DATE June 1, 2000	PATENT NO., IF ANY	ISSUE DATE, IF ANY
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If the involved case is a patent, have its maintenance fees been paid? Yes ____ No ____ Not due yet _____

Proposed priority benefit (list all intervening applications necessary for continuity):

COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO., IF ANY	ISSUE DATE, IF ANY
United States	09/286,650	April 6, 1999	6,333,699 B1	Dec. 25, 2001

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The claim(s) of this party corresponding to this count:

PATENTED OR PATENTABLE PENDING CLAIMS

Claims 83-86 and 105-138 of 09/586,648 and claims 25 and 29 of U.S.
6,333,699 B1

UNPATENTABLE PENDING CLAIMS

NONE

The claim(s) of this party NOT corresponding to this count:

PATENTED OR PATENTABLE PENDING CLAIMS

NONE

UNPATENTABLE PENDING CLAIMS

NONE

PARTY Thomeer et al.	APPLICATION NO. 09/536,953	FILING DATE March 28, 2000	PATENT NO., IF ANY 6,333,700 B1	ISSUE DATE, IF ANY Dece. 25, 2001
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If the involved case is a patent, have its maintenance fees been paid? Yes ____ No ____ Not due yet X

Proposed priority benefit (list all intervening applications necessary for continuity):

COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO., IF ANY	ISSUE DATE, IF ANY

The claim(s) of this party corresponding to this count:

PATENTED OR PATENTABLE PENDING CLAIMS

11-14

UNPATENTABLE PENDING CLAIMS

Not applicable

The claim(s) of this party NOT corresponding to this count:

PATENTED OR PATENTABLE PENDING CLAIMS

1-10 and 15-48

UNPATENTABLE PENDING CLAIMS

Not applicable

(Check off each step, if applicable) INSTRUCTIONS

- ☐ 1. Obtain all files listed above.
- ☐ 2. Confirm that the proposed involved claims are still active and all corrections and entered amendments have been considered. The patents must not be expired for, among other things, failure to pay a maintenance fee (Check PALM screen 2970).
- ☐ 3. If one of the involved files is a published application or a patent, check for compliance with 35 U.S.C. 135(b).
- ☐ 4. Obtain a certified copy of any foreign benefit documents where necessary (37 CFR 1.55(a)).
- ☐ 5. Discuss the proposed interference with an Interference Practice Specialist in your Technology Center.

DATE	PRIMARY EXAMINER (signature)	ART UNIT	TELEPHONE NO.
DATE	INTERFERENCE PRACTICE SPECIALIST or TECHNOLOGY CENTER DIRECTOR (signature)		TELEPHONE NO.

Claim Chart A

Attachment to Preliminary Amedment dated 09/12/2003 to U.S. patent application serial no. 09/586,648

Claim	Specification Support in U.S. Patent No. 6,333,699
83. A method for actuating or installing downhole equipment in a wellbore, comprising the steps of:	Column 5, line 66 – column 6, line 2; column 8, lines 7-16; Figs. 1 & 2
(a) providing, a first downhole structure that comprises an RF identification transmitter unit	Column 2, lines 28-31; column 6, lines 2-6; column 8, lines 22-47; column 13, lines 62-67; claims 1, 11; Fig. 2
that stores an identification code	Column 19, lines 1-16
and transmits an RF signal corresponding to the identification code,	Column 1, lines 17-20; column 2, lines 31 & 32; column 7, lines 8-13; column 9, line 46 – column 10, line 25; column 13, line 67 – column 14, line 7
wherein a plurality of first downhole structures	Column 5, line 66 – column 6, line 2; column 8, lines 7-16; Figs. 1 & 2
are located at different depths in a wellbore,	Column 9, lines 46-67
each of the first downhole structures comprises a tubular member	Column 5, line 66 – column 6, line 2; column 8, lines 7-16; Figs. 1 & 2
having a hollow axial bore therethrough and the RF identification transmitter unit secured thereto;	Column 5, line 66 – column 6, line 2; column 8, lines 7-16; Figs. 1 & 2
(b) providing a second downhole structure	Column 8, lines 16-22 and 48-62; column 9, lines 28-36 and 46-50; claims 1, 11; Fig. 1
that comprises an RF receiver unit,	Column 2, lines 33-36; column 8, lines 21, 22 and 48-62; column 9, lines 23-27 claims 1, 11; Figs. 1, 2
that can receive the signal transmitted by the identification transmitter unit,	Column 2, lines 33-36; column 8, lines 21, 22 and 48-62; column 9, lines 23-27 claims 1, 11; Figs. 1, 2
decode the signal to determine the identification code corresponding thereto	
and compare the identification code to a preset target identification code;	
wherein one of the first downhole structure and the second downhole structure is secured	Column 1, lines 27-30; column 8, lines 7-16; Figs. 1, 2
at a given location in a subterranean wellbore, and the other is moveable in the wellbore;	Column 9, lines 28-30 and 46-50; Figs. 1, 2

Claim Chart A

Attachment to Preliminary Amedment dated 09/12/2003 to U.S. patent application serial no. 09/586,648

<u>Claim</u>	<u>Specification Support in U.S. Patent No. 6,338,699</u>
(c) placing the second downhole structure in close enough proximity to the first downhole structure so that the RF receiver unit can receive the RF signal transmitted by the RF identification transmitter unit;	Column 2, lines 33-36; column 8, lines 21, 22 and 48-62; column 9, lines 18-27 claims 1, 11; Figs. 1, 2
(d) comparing the identification code determined by the RF receiver unit to the target identification code,	Column 9, line 46 – column 10, line 25
the determined identification code is used to determine the depth of the second downhole structure in the borehole; and	Column 9, line 46 – column 10, line 25
(e) if the determined identification code matches the target identification code, actuating or installing one of the first downhole structure or second downhole structure in physical proximity to the other.	Column 9, line 46 – column 10, line 25; column 13, line 55 – column 14, line 7
84. The method of claim 83 , wherein the plurality of tubular members are joints of completion tubing that are attached end to end.	Column 14, lines 8-14
85. The method of claim 84 , wherein each identification transmitter is secured near one end of the respective joint of completion tubing.	Column 8, lines 22-26; column 12, lines 34-36; column 14, lines 8-14; Figs. 1, 3
86. The method of claim 83 , wherein second downhole structure is a perforating gun,	Column 9, lines 46-67; column 13, line 55 – column 14, line 7; Figs. 1, 2
and the determined depth is used to determine when to fire the gun.	Column 9, lines 64-67; column 13, line 55 – column 14, line 7
105. A method of performing a operation in a well comprising: transporting a tool and a reader assembly	Column 1, lines 25-27 and 36-39; column 9, lines 46-67
through a well having a plurality of radio identification devices	Column 8, lines 16-20; column 9, lines 28-36 and 46-50; claims 1, 11; Fig. 1
capable of transmitting a unique signal to identify each of the plurality of radio identification devices and the depth thereof in the well; and	Column 2, lines 28-31; column 6, lines 2-6; column 8, lines 22-47; column 13, lines 62-67; claims 1, 11; Fig. 2
	Column 1, lines 17-20; column 2, lines 31 & 32; column 7, lines 8-13; column 9, line 46 – column 10, line 25; column 13, line 67 – column 14, line 7

Claim Chart A

Attachment to Preliminary Amedment dated 09/12/2003 to U.S. patent application serial no. 09/586,648

Claim	Specification Support in U.S. Patent No. 6,333,699
controlling at least one operation of the tool responsive to the reader assembly locating one of the plurality of radio identification devices which is located at a depth in the well appropriate for conducting the at least one operation.	Column 9, lines 46-67; column 13, line 55 – column 14, line 7
106. The method of claim 105 wherein a plurality of tubular elements are positioned in the well	Column 8, lines 7-16; Figs. 1, 2
and the tool and the reader assembly are transported through the plurality of tubular elements	Column 8, lines 16-20; column 9, lines 46-50
and each of the plurality of radio identification devices are secured to separate tubular elements.	Column 6, lines 2-6, column 8, lines 22-26, column 9, lines 46-50
107. The method of claim 106 wherein the plurality of tubular elements define well casing.	Column 6, lines 2-6; column 8, lines 22-26; column 9, lines 46-60; column 14, lines 7-14
108. The method of claim 106 wherein the controlling step is performed by transmitting a control signal from the reader assembly to the tool.	Column 9, lines 46-63; column 13, line 67 – column 14, line 7
109. The method of claim 106 wherein the controlling step is performed dynamically as the tool is transported through the plurality of tubular elements.	Column 9, lines 46-56; column 13, line 67 – column 14, line 7
110. The method of claim 106 wherein the controlling step is performed statically by stopping the tool proximate to said one of the plurality of radio identification devices.	Column 9, lines 10-18; column 13, line 67 – column 14, line 7
111. The method of claim 106 wherein the tool is a perforating tool and the operation is a perforating operation.	Column 9, lines 46-67; column 13, line 55 – column 14, line 7; Figs. 1, 2
112. The method of claim 110 wherein the controlling step includes detonating the perforating tool responsive to a control signal from the reader assembly.	Column 9, lines 46-67; column 13, line 55 – column 14, line 7; Figs. 1, 2
113. The method of claim 106 wherein the tool comprises a packer setting tool and the operation is setting of a packer element using the packer setting tool.	Column 2, lines 26-42; column 6, lines 2-6; column 8, lines 16-20; column 13, line 55 – column 14, line 7; Figs. 1, 2

Claim Chart A

Attachment to Preliminary Amedment dated 09/12/2003 to U.S. patent application serial no. 09/586,648

Claim	Specification Support in U.S. Patent No. 6,333,699
114. The method of claim 106 wherein the tool comprises a bridge plug setting tool and the operation is setting of a bridge plug using a bridge plug setting tool.	Column 2, lines 26-42; column 6, lines 2-6; column 8, lines 16-20; column 13, line 55 – column 14, line 7; Figs. 1, 2
115. The method of claim 106 wherein the transporting step is performed using a transport mechanism selected from the group consisting of wire lines, pumps, blowers, parachutes, coil tubing and tubing strings.	Column 2, lines 36-39; column 6, lines 12-15; column 8, lines 16-20; column 9, lines 10-18 and 26-34; column 14, lines 14-18; Figs. 1, 2
116. The method of claim 106 wherein the transporting step is performed by gravity.	Column 8, lines 16-20 and 48-62; column 9, lines 28-30 and 46-50; Fig. 1
117. The method of claim 106 wherein the operation comprises a process selected from the group consisting of perforating processes, packer setting processes, bridge plug setting processes, logging processes, inspection processes, chemical treating processes, casing patch processes, jet cutting processes and cleaning processes.	Column 2, lines 26-42; column 6, lines 2-6; column 8, lines 16-20; column 9, lines 46-67; column 13, line 55 – column 14, line 7; Figs. 1, 2
118. The method of claim 106 further comprises spacing the tool from the reader assembly by a selected distance.	
119. The method of claim 106 wherein the transporting step includes transporting a second tool, the method further comprising:	
controlling the operation of the second tool responsive to the reader assembly locating one of the plurality of radio identification devices which is at a depth in the well appropriate for conducting the operation of the second tool.	
120. The method of claim 119 wherein the tool and the second tool are initially attached to one another and separated between the one of the plurality of radio identification devices and the another of the plurality of the radio identification devices.	

Claim Chart A

Attachment to Preliminary Amedment dated 09/12/2003 to U.S. patent application serial no. 09/586,648

<u>Claim</u>	<u>Specification Support in U.S. Patent No. 6,333,699</u>
121. The method of claim 106 wherein the reader assembly comprises a radio frequency transmitter configured to provide a transmission signal for reception by the radio identification devices and a receiver configured to receive response signals from the radio identification devices.	Column 2, lines 33-36; column 8, lines 21, 22 and 48-62; column 9, lines 18-23; claims 1, 11; Figs. 1, 2
122. The method of claim 106 wherein the tool comprises a combination tool configured to perform multiple operations in the well.	Column 2, lines 33-36; column 8, lines 21, 22 and 48-62; column 9, lines 23-27 claims 1, 11; Figs. 1, 2
123. The method of claim 106 wherein the transporting step is performed by free falling the tool and the reader assembly through the plurality of tubular elements.	
124. The method of claim 105 further comprising establishing a record of the well using information obtained during the transportation of the reader assembly through the well.	Column 1, lines 20-23; column 2, lines 37-42; column 6, lines 15-26 and 53-65; column 9, lines 37-45; column 13, line 13 - column 14, line 7
125. A system for performing an operation in a well comprising: at least one tool configured for transport through a well; a plurality of radio identification devices located at spaced intervals at known depths in the well and configured to transmit response signals for uniquely identifying each radio identification device and the depth thereof in the well; and a reader assembly configured for receiving the response signals from the radio identification devices and for controlling the operation of the at least one tool at an appropriate depth in the well responsive to the response signals.	Column 2, lines 26-28; column 8, lines 16-22; claims 1, 11 Column 1, lines 15-17; column 2, lines 29-32; column 6, lines 2-5 and 47-52; claim 11 Column 9, lines 46-67 Column 2, lines 32 & 33; column 7, lines 8-13; column 9, line 46 - column 10, line 25 Column 2, lines 33-36; column 6, lines 6-12; column 8, lines 21 & 22 and 48-62; column 9, lines 18-27; claims 1, 11; Figs. 1, 2 Column 6, lines 12-15 and 19-26; column 9, lines 18-27; column 9, line 46 - column 10, line 25; column 13, line 62 - column 14, line 7

Claim Chart A

Attachment to Preliminary Amedment dated 09/12/2003 to U.S. patent application serial no. 09/586,648

Claim	Specification Support in U.S. Patent No. 6,333,699
126. The system of claim 125 wherein a plurality of tubular elements are positioned in the well,	Column 8, lines 7-16; Figs. 1, 2
the at least one tool is configured to be transported through the plurality of tubular elements,	Column 8, lines 16-20; column 9, lines 46-50
and each of the plurality of radio identification devices are secured to separate tubular elements within the well.	Column 6, lines 2-6, column 8, lines 22-26, column 9, lines 46-50
127. The system of claim 126 wherein the reader assembly is attached to the at least one tool	Column 6, lines 5, 6 and 47-52; column 8, lines 21, 22 and 47-51; Figs. 1, 2
128. The system of claim 126 further comprising a transport mechanism configured to move the at least one tool and the reader assembly through the well.	Column 2, lines 36-39; column 6, lines 12-15; column 8, lines 16-20; column 9, lines 10-18 and 26-34; column 14, lines 14-18; Figs. 1, 2
129. The system of claim 128 wherein said transport mechanism comprises a mechanism selected from the group consisting of wire lines, pumps, blowers, parachutes, coil tubing and tubing strings.	Column 2, lines 36-39; column 6, lines 12-15; column 8, lines 16-20; column 9, lines 10-18 and 26-34; column 14, lines 14-18; Figs. 1, 2
130. The system of claim 126 wherein said at least one tool is configured for transport through the plurality of tubular elements by gravity.	Column 8, lines 16-20 and 48-62; column 9, lines 28-30 and 46-50; Fig. 1
131. The system of claim 130 wherein said at least one tool is configured to free fall through the tubular elements.	
132. The system of claim 126 wherein said reader assembly comprises a receiver configured to receive the response signals	Column 2, lines 33-36; column 8, lines 21, 22 and 48-62; column 9, lines 23-27 claims 1, 11; Figs. 1, 2
and a transmitter configured to transmit transmission signals to the plurality of radio identification devices.	Column 2, lines 33-36; column 8, lines 21, 22 and 48-62; column 9, lines 18-23; claims 1, 11; Figs. 1, 2
133. The system of claim 126 wherein the reader assembly further comprises a control circuitry or a computer.	Column 6, lines 19-26; column 9, lines 30-50;
134. The system of claim 132 wherein the reader assembly is programmed to control the operation of the at least one tool in situ within the well.	Column 6, lines 12-15 and 19-26; column 9, lines 18-27; column 9, line 46 – column 10, line 25; column 13, line 62 – column 14, line 7

Claim Chart A

Attachment to Preliminary Amedment dated 09/12/2003 to U.S. patent application serial no. 09/586,648

Claim	Specification Support in U.S. Patent No. 6,333,699
135. The system of claim 126 wherein the reader assembly further comprises a controller at the surface.	Column 6, lines 19-26 and 53-59; column 6, line 66 – column 7, line 7; column 9, line 37 – column 10, line 25; Fig. 2
136. The system of claim 125 wherein the at least one tool is at least one perforating tool having at least one charge assembly.	Column 9, lines 46-67; column 13, line 55 – column 14, line 7; Figs. 1, 2
137. The system of claim 136 further comprising: a detonator in signal communication with the reader assembly and configured to detonate the at least one charge assembly.	
138. The system of claim 126 wherein adjacent tubular elements of said plurality of tubular elements are secured together by a collar	Column 8, lines 7-12; Fig. 1
which includes one of said plurality of radio identification devices.	Column 8, lines 21-26; Fig. 1



Claim Chart B

Attachment to Preliminary Amedment dated 09/12/2003 to U.S. patent application serial no. 09/586,648

Claim	Specification Support in 09/586,648 Application
83. A method for actuating or installing downhole equipment in a wellbore, comprising the steps of: (a) providing, a first downhole structure that comprises an RF identification transmitter unit	Page 6, lines 24-28; page 10, line 26; page 11, lines 21-37; page 19, lines 10-16; page 21, line 11; claims 18, 24, 38, 42, 50, 63, 70, 71, 73, 74; Figs. 3A & B, 7A & B
that stores an identification code	Page 6, line 29-33; page 8, lines 21-23; page 10, lines 26 & 27; page 12, line 35 - page 13, line 11; page 13, line 35 - page 14, line 7; page 19, lines 30-32; page 21, lines 11 & 12; claims 24, 30, 36, 38, 42, 50, 64, 70, 71, 73; Fig. 3D
and transmits an RF signal corresponding to the identification code, wherein a plurality of first downhole structures are located at different depths in a wellbore, each of the first downhole structures comprises a tubular member having a hollow axial bore therethrough and the RF identification transmitter unit secured thereto;	Page 6, line 33 - page 7, line 2; page 8, lines 23-26; page 13, lines 12-25; page 15, lines 4-13; page 10, line 28; claims 11, 36, 56; Figs. 2 and 4A
(b) providing a second downhole structure that comprises an RF receiver unit, that can receive the signal transmitted by the identification transmitter unit, decode the signal to determine the identification code corresponding thereto	Page 7, lines 9-11; claims 24, 30, 42, 70, 73; Fig. 4A
	Page 6, lines 24-28; page 11, lines 21-37; page 19, lines 10-14
	Page 6, line 35 - page 7, line 2; page 13, lines 19-22; page 15, lines 11-13; page 19, lines 14-16
	Page 3, lines 27-29; page 11, lines 21-23; page 14, lines 2 & 3; page 19, lines 11-14; claim 63
	Page 6, line 29-33; page 8, lines 21-23; page 10, lines 26 & 27; page 12, line 35 - page 13, line 11; page 13, line 35 - page 14; line 7; page 19, lines 30-32; page 21, lines 11 & 12
	Page 8, lines 30 & 31; page 10, line 21; page 12, lines 6-26; page 21, lines 6-26; claims 11, 18, 36; Figs. 3A, 3B, 3E, 4A, 5A, 6A-D, 7A, 7B, 8A-C
	Page 8, lines 30-36; page 10, lines 22 & 23; page 14, line 8 - page 15, line 3; page 21, lines 10 & 11; claims 4, 6, 24, 30
	Page 14, lines 15-17; page 15, lines 16 & 17; claims 6, 7, 39, 42, 45, 46, 56, 59, 65, 70, 73
	Page 7, lines 23-30; page 16, lines 6-17

Claim Chart B

Attachment to Preliminary Amedment dated 09/12/2003 to U.S. patent application serial no. 09/586,648

<u>Claim</u>	<u>Specification Support in 09/586,648 Application</u>
and compare the identification code to a preset target identification code;	Page 7, lines 23-30; page 16, lines 6-17
wherein one of the first downhole structure and the second downhole structure is secured	Page 11, lines 11 & 12; page 19, lines 10 & 11; Figs. 3A, 3B, 7A, 7B, 8A-C
at a given location in a subterranean wellbore, and the other is moveable in the wellbore;	Page 10, lines 24 & 25 and 33 & 34; page 12, lines 11-13; page 18, line 23 - page 19, line 3; page 19; lines 30-32; page 20, lines 13 & 14; claims 1, 2, 6, 11, 15, 16, 18, 23, 24, 28-30, 33, 34, 36, 42, 45, 50, 55, 58, 66-68, 70, 73; Figs. 3A, 3B, 7A, 7B, 8A-C
(c) placing the second downhole structure in close enough proximity to the first downhole structure so that the RF receiver unit can receive the RF signal transmitted by the RF identification transmitter unit;	Page 6, lines 3-5; page 7, lines 21-23; page 10, lines 35 & 36; page 16, lines 6-11; page 20, lines 8-10; page 21, lines 23-28; claims 6, 18, 22, 36, 45, 50, 54
(d) comparing the identification code determined by the RF receiver unit to the target identification code,	Page 7, lines 23-30; page 16, lines 6-17; page 20, lines 6-8; Fig. 2
the determined identification code is used to determine the depth of the second downhole structure in the borehole; and	Page 5, lines 34-38; page 6, lines 8-10; page 7, lines 23-27 & 34-37; page 11, lines 1-3; page 16, lines 11-17; page 20, lines 26-31
(e) if the determined identification code matches the target identification code, actuating or installing one of the first downhole structure or second downhole structure in physical proximity to the other.	Page 7, lines 16-21; page 11, lines 1-3; page 16, lines 1-17; page 17, lines 8-15; page 21, lines 21-23; and 33-36; claims 6, 11, 24, 26, 36, 42, 45, 47, 56, 60, 61, 70, 72, 73; Fig. 2
84. The method of claim 83 , wherein the plurality of tubular members are joints of completion tubing that are attached end to end.	Page 11, lines 21-25; 32-35
85. The method of claim 84 , wherein each identification transmitter is secured near one end of the respective joint of completion tubing.	Page 11, lines 21-25; 32-35; Page 12, lines 35-38; Fig. 3D
86. The method of claim 83 , wherein second downhole structure is a perforating gun,	Page 7, lines 20 & 21; page 12, lines 7 & 16-34; page 18, line 2 - page 19, line 3; page 21, line 3; claims 9, 10, 12, 24, 60 & 70; Figs. 3A & 3B, 6A-D & 8A-C

Claim Chart B

Attachment to Preliminary Amedment dated 09/12/2003 to U.S. patent application serial no. 09/586,648

Claim	Specification Support in 09/586,648 Application
and the determined depth is used to determine when to fire the gun.	Page 7, lines 23-30; page 15, line 35 - page 16, line 17; page 21, line 33 - page 22, line 2; claims 9, 12, 26, 48 & 60; Figs. 3A & 3B, 6A-D & 8A-C
105. A method of performing a operation in a well comprising: transporting a tool and a reader assembly	Page 5, lines 34-38; page 6, lines 13-15 Page 8, line 30 - page 9, line 10; page 10, lines 21, 33 & 34; page 36, lines 9-11; Fig. 2
through a well having a plurality of radio identification devices capable of transmitting a unique signal to identify each of the plurality of radio identification devices and the depth thereof in the well; and	Page 8, lines 21-23; page 10, lines 26 & 27 Page 7, lines 9-11; page 8, lines 23-26; page 13, lines 12-18; page 15, lines 4-14; page 17, line 36 - page 18, line 2
controlling at least one operation of the tool responsive to the reader assembly locating one of the plurality of radio identification devices which is located at a depth in the well appropriate for conducting the at least one operation.	Page 7, lines 27-30; page 8, lines 3-11; page 11, lines 1-3; Page 36, lines 11-13
106. The method of claim 105 wherein a plurality of tubular elements are positioned in the well	Page 6, lines 24-28; page 11, lines 21-37; claim 63
and the tool and the reader assembly are transported through the plurality of tubular elements	Page 8, line 30 - page 9, line 10; page 10, lines 21, 33 & 34; page 36, lines 9-11; Fig. 2
and each of the plurality of radio identification devices are secured to separate tubular elements.	Page 6, lines 35-37; page 8, lines 21-23; page 13, line 35 - Page 14, line 7
107. The method of claim 106 wherein the plurality of tubular elements define well casing.	Page 11, lines 11, 12, and 21-37; claim 63
108. The method of claim 106 wherein the controlling step is performed by transmitting a control signal from the reader assembly to the tool.	Page 7, lines 16-19; page 8, lines 34-38; page 10, lines 30-32; page 11, lines 1-3; page 15, lines 22-25; page 16, lines 1-3; page 20, lines 6-18; page 21, lines 21-23 and 33-36; claims 11, 63; Fig. 2
109. The method of claim 106 wherein the controlling step is performed dynamically as the tool is transported through the plurality of tubular elements.	Page 8, lines 11-13; page 16, line 18 - page 17, line 5; page 20, lines 19-24; page 36, lines 16-18; claims 21, 27, 53

Claim Chart B

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Claim	Specification Support in 09/586,648 Application
110. The method of claim 106 wherein the controlling step is performed statically by stopping the tool proximate to said one of the plurality of radio identification devices.	Page 8, lines 13 & 14; page 17, lines 6-15; page 20, lines 24-26; page 36, lines 18 & 19; claims 22, 54
111. The method of claim 106 wherein the tool is a perforating tool and the operation is a perforating operation.	Page 6, lines 23 & 24; page 7, lines 20 & 21; page 11, lines 7-10; page 12, lines 6-8; page 15, line 35 – page 17, line 5; page 20, line 34 – page 21, line 2; claims 9, 12, 24, 48, 60, 70; Figs. 2, 3B, 3C, 5A, 5B
112. The method of claim 110 wherein the controlling step includes detonating the perforating tool responsive to a control signal from the reader assembly.	Page 7, lines 23-30; page 16, lines 6-11 and 28-34; claims 26, 60, 70, 72
113. The method of claim 106 wherein the tool comprises a packer setting tool and the operation is setting of a packer element using the packer setting tool.	Page 7, lines 31-34; page 8, lines 16-20; page 19, line 4 – Page 20, line 33; claims 10, 13, 32, 49, 61, 73, 75; Figs. 7A, 7B, 8A, 8C
114. The method of claim 106 wherein the tool comprises a bridge plug setting tool and the operation is setting of a bridge plug using a bridge plug setting tool.	Page 7, lines 31-34; claim 35
115. The method of claim 106 wherein the transporting step is performed using a transport mechanism selected from the group consisting of wire lines, pumps, blowers, parachutes, coil tubing and tubing strings.	Page 7, lines 11-15, page 18, line 14 – page 19, line 33; claim 68
116. The method of claim 106 wherein the transporting step is performed by gravity.	Page 18, line 33 – page 19, line 3; page 21, lines 13-16; claims 16, 23, 55, 66
117. The method of claim 106 wherein the operation comprises a process selected from the group consisting of perforating processes, packer setting processes, bridge plug setting processes, logging processes, inspection processes, chemical treating processes, casing patch processes, jet cutting processes and cleaning processes.	Page 6, lines 15-20; page 7, lines 31-34; page 36, lines 13-16; claims 5, 17, 41
118. The method of claim 106 further comprises spacing the tool from the reader assembly by a selected distance.	Page 16, line 35 – page 17, line 5; page 20, lines 14-18; claims 25, 31; Figs. 5A, 5B

Claim Chart B

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Claim	Specification Support in 09/586,648 Application
119. The method of claim 106 wherein the transporting step includes transporting a second tool, the method further comprising: controlling the operation of the second tool responsive to the reader assembly locating one of the plurality of radio identification devices which is at a depth in the well appropriate for conducting the operation of the second tool.	Page 21, lines 10-16; claims 36, 42
120. The method of claim 119 wherein the tool and the second tool are initially attached to one another and separated between the one of the plurality of radio identification devices and the another of the plurality of the radio identification devices.	Page 8, lines 14 & 15; page 21, line 17 – page 22, line 22; claims 36, 42
121. The method of claim 106 wherein the reader assembly comprises a radio frequency transmitter configured to provide a transmission signal for reception by the radio identification devices and a receiver configured to receive response signals from the radio identification devices.	Page 21, lines 28-30; claim 37; Figs. 8A, 8B, 8C
122. The method of claim 106 wherein the tool comprises a combination tool configured to perform multiple operations in the well.	Page 7, lines 6-8; page 14, lines 9-15 and 18-28; page 15, lines 14-16; claims 4, 7, 39, 46, 59, 65; Fig. 3E
123. The method of claim 106 wherein the transporting step is performed by free falling the tool and the reader assembly through the plurality of tubular elements.	Page 7, lines 6-8; page 14, lines 11 & 12 and 15-17; page 15, lines 14-17; claims 4, 7, 39, 46, 59, 65; Fig. 3E
124. The method of claim 105 further comprising establishing a record of the well using information obtained during the transportation of the reader assembly through the well.	Page 8, lines 15-20; page 21, lines 5-10; Figs. 8A-C
125. A system for performing an operation in a well comprising: at least one tool configured for transport through a well;	Page 7, lines 11-15; page 18, line 33 – page 19, line 3; claims 29, 34
	Page 8, line 31 – page 9, line 4; page 15, lines 4-9; claim 52
	Page 8, lines 30 & 31; page 10, lines 21, 33 & 34; page 36, lines 9-11; Fig. 2

Claim Chart B

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<u>Claim</u>	<u>Specification Support in 09/586,648 Application</u>
a plurality of radio identification devices located at spaced intervals	Page 6, lines 29-32; page 8, lines 21-23; page 10, lines 26 & 27;
at known depths in the well	Page 6, line 35 – page 7, line 2; page 8, lines 23-26
and configured to transmit response signals for uniquely identifying each radio identification device and the depth thereof in the well; and	Page 7, lines 9-11; page 8, lines 23-26; page 13, lines 12-18; page 15, lines 4-14; page 17, line 36 – page 18, line 2
a reader assembly configured for receiving the response signals from the radio identification devices	Page 7, lines 6-8; page 14, lines 11 & 12 and 15-17; page 15, lines 14-17; claims 4, 7, 39, 46, 59, 65; Fig. 3E
and for controlling the operation of the at least one tool at an appropriate depth in the well responsive to the response signals.	Page 7, lines 16-21; page 10, lines 30-32; page 11, lines 1-3
126. The system of claim 125 wherein a plurality of tubular elements are positioned in the well,	Page 6, lines 24-28; page 11, lines 21-37; claim 63
the at least one tool is configured to be transported through the plurality of tubular elements,	Page 8, line 30 – page 9, line 10; page 10, lines 21, 33 & 34; page 36, lines 9-11; Fig. 2
and each of the plurality of radio identification devices are secured to separate tubular elements within the well.	Page 6, lines 35-37; page 8, lines 21-23; page 13, line 35 – Page 14, line 7
127. The system of claim 126 wherein the reader assembly is attached to the at least one tool	Claims 44, 57, 63, 70, 73; Figs. 3A, 3B, 6 A-D, 8 A-C
128. The system of claim 126 further comprising a transport mechanism configured to move the at least one tool and the reader assembly through the well.	Page 7, lines 3-5 and 11-15; page 10, lines 24 & 25; page 12, lines 11-13; page 18, lines 14-17; page 19, lines 32-37; claims 23, 28, 33, 55, 58, 67, 70; Figs. 2, 6 A-D
129. The system of claim 128 wherein said transport mechanism comprises a mechanism selected from the group consisting of wire lines, pumps, blowers, parachutes, coil tubing and tubing strings.	Page 7, lines 11-15, page 18, line 14 – page 19, line 33; claim 68
130. The system of claim 126 wherein said at least one tool is configured for transport through the plurality of tubular elements by gravity.	Page 18, line 33 – page 19, line 3; page 21, lines 13-16; claims 16, 23, 55, 66
131. The system of claim 130 wherein said at least one tool is configured to free fall through the tubular elements.	Page 7, lines 11-15; page 18, line 33 – page 19, line 3; claims 29, 34

Claim Chart B

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Claim	Specification Support in 09/586,648 Application
132. The system of claim 126 wherein said reader assembly comprises a receiver configured to receive the response signals and a transmitter configured to transmit transmission signals to the plurality of radio identification devices.	Page 7, lines 6-8; page 14, lines 11 & 12 and 15-17; page 15, lines 14-17; claims 4, 7, 39, 46, 59, 65; Fig. 3E
133. The system of claim 126 wherein the reader assembly further comprises a control circuitry or a computer.	Page 7, lines 6-8; page 14, lines 9-15 and 18-28; page 15, lines 14-16; claims 4, 7, 39, 46, 59, 65; Fig. 3E
134. The system of claim 132 wherein the reader assembly is programmed to control the operation of the at least one tool in situ within the well.	Page 8, lines 7-11; page 8, line 36 – page 9, line 8; page 15, lines 26-34; page 15, line 37 – page 16, line 1; page 17, lines 16-19; page 18, lines 19-22; page 20, lines 26-33
135. The system of claim 126 wherein the reader assembly further comprises a controller at the surface.	Page 7, lines 23-30; page 8, lines 3-6 and 31-34; page 10, lines 30-32; page 11, lines 1-3; page 15, lines 19-25; page 15, line 35 – page 16, line 17; page 17, lines 8-15, page 20, lines 6-14; page 36, lines 11-13; claim 11; Fig. 2
136. The system of claim 125 wherein the at least one tool is at least one perforating tool having at least one charge assembly.	Page 8, lines 7-11; page 8, line 36 – page 9, line 8; page 15, lines 26-34; page 15, line 37 – page 16, line 1; page 17, lines 16-19; page 18, lines 19-22; page 20, lines 26-33
137. The system of claim 136 further comprising: a detonator in signal communication with the reader assembly and configured to detonate the at least one charge assembly.	Page 6, lines 23 & 24; page 7, lines 20 & 21; page 12, lines 6, 7 and 16-34; Figs. 3 A-C; 6 A-D; 8 A-C
138. The system of claim 126 wherein adjacent tubular elements of said plurality of tubular elements are secured together by a collar	Page 7, lines 23-30; page 12, lines 16-26; page 15, line 35 – page 16, line 11; claim 72
which includes one of said plurality of radio identification devices.	Page 11, lines 21-29; Figs. 3A, 3B, 3D
	Page 6, lines 31-33; page 8, lines 21-23; page 12, lines 8-11 and 35-38; page 19, lines 30-32; page 36, lines 21-23; Fig. 3D